

Climate for Laypeople

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The Climate Scientists' Register

"We, the undersigned, having assessed the relevant scientific evidence, do not find convincing support for the hypothesis that human emissions of carbon dioxide are causing, or will in the foreseeable future cause, dangerous global warming."

Click on country name in the following list to see endorsers from that nation: [Algéria](#) (1 endorser), [Australia](#) (8), [Bulgaria](#) (1), [Canada](#) (16), [Denmark](#) (1), [Estonia](#) (1), [Finland](#) (1), [France](#) (1), [Germany](#) (4), [Greece](#) (1), [India](#) (3), [Italy](#) (3), [Luxembourg](#) (1), [Mexico](#) (1), [New Zealand](#) (6), [Norway](#) (5), [Poland](#) (3), [Russia](#) (5), [South Africa](#) (1), [Sweden](#) (8), [United Kingdom](#) (6), [United States of America](#) (64).

Complete Endorser List:

1. [Habibullo I. Abdussamatov](#), Dr. Sci., mathematician and astrophysicist, Head of the Russian-Ukrainian Astrometria project on the board of the Russian segment of the ISS, Head of Space Research Laboratory at the Pulkovo Observatory of the Russian Academy of Sciences, St. Petersburg, Russia
2. [Syun-Ichi Akasofu](#), PhD, Professor of Physics, Emeritus and Founding Director, International Arctic Research Center of the University of Alaska, Fairbanks, Alaska, U.S.A.

3. J.R. Alexander, Professor Emeritus, Dept. of Civil Engineering, University of Pretoria, South Africa; Member, UN Scientific and Technical Committee on Natural Disasters, 1994-2000, Pretoria, South Africa
4. Bjarne Andresen, Dr. Scient., physicist, published and presents on the impossibility of a "global temperature", Professor, Niels Bohr Institute (areas of specialization: fundamental physics and chemistry, in particular thermodynamics), University of Copenhagen, Copenhagen, Denmark
5. Timothy F. Ball, PhD, environmental consultant and former climatology professor, University of Winnipeg, Winnipeg, Manitoba, Canada
6. Romuald Bartnik, PhD (Organic Chemistry), Professor Emeritus, Former chairman of the Department of Organic and Applied Chemistry, climate work in cooperation with Department of Hydrology and Geological Museum, University of Lodz, Lodz, Poland
7. Colin Barton, B.Sc., PhD (Earth Science), Principal research scientist (retd), Commonwealth Scientific and Industrial Research Organisation (CSIRO), Melbourne, Victoria, Australia
8. Franco Battaglia, PhD (Chemical Physics), Professor of Environmental Chemistry (climate specialties: environmental chemistry), University of Modena, Italy
9. David Bellamy, OBE, PhD, English botanist, author, broadcaster, environmental campaigner, Hon. Professor of Botany (Geography), University of Nottingham, Hon. Prof. Faculty of Engineering and Physical Systems, Central Queensland University, Hon. Prof. of Adult and Continuing Education, University of Durham, United Nations Environment Program Global 500 Award Winner, Dutch Order of The Golden Ark, Bishop Auckland County, Durham, United Kingdom
10. Richard Becherer, BS (Physics, Boston College), MS (Physics, University of Illinois), PhD (Optics, University of Rochester), former Member of the Technical Staff - MIT Lincoln Laboratory, former Adjunct Professor - University of Connecticut, Areas of Specialization: optical radiation physics, coauthor - standard reference book Optical Radiation Measurements: Radiometry, Millis, MA, U.S.A.
11. Ernst-Georg Beck, Dipl. Biology (University of Freiburg), biologist (area of specialization: CO₂ record in the last 150 years – see paper "Accurate estimation of CO₂ background level from near ground measurements at non-mixed environments"), see <http://www.biomind.de/realCO2/> for more from Mr. Beck, Biesheim, France
12. Edwin Berry, PhD (Atmospheric Physics, Nevada), MA (Physics, Dartmouth), BS (Engineering, Caltech), President, Climate Physics LLC, Bigfork, MT, U.S.A.
13. Sonja A. Boehmer-Christiansen, PhD, Reader Emeritus, Dept. of Geography, Hull University, Editor - Energy&Environment, Multi-Science (www.multi-science.co.uk), Hull, United Kingdom
14. M. I. Bhat, PhD, formerly Scientist at the Wadia Institute of Himalayan Geology, Dehra, currently Professor & Head, Department of Geology & Geophysics, University of Kashmir (areas of specialization: Geochemistry, Himalayan and global tectonics & tectonics and climate (Prof Bhat: "Arguing for deepening the climate frontiers by considering interaction between solar flares and core-mantle boundary processes. Clue possibly lies in exploring the tectonics of regions that underlies high and low pressure cells of the three global oscillations (SO, NAO, NPO)"), Srinagar, Jammu & Kashmir, India
15. Ahmed Boucenna, PhD, Professor of Physics, Physics Department, Faculty of Science, Ferhat Abbas University, Setif, Algérie. Author of The Great Season Climatic Oscillation, I. RE. PHY. 1(2007) 53, The Great Season Climatic Oscillation and the Global Warming, Global Conference On Global Warming, July 6-10, 2008, Istanbul, Turkey and Pseudo Radiation Energy Amplifier (PREA) and the Mean Earth's Ground Temperature, arXiv:0811.0357 (November 2008)
16. Antonio Brambati, PhD, Emeritus Professor (sedimentology), Department of Geological, Environmental and Marine Sciences (DiSGAM), University of Trieste (specialization: climate change as determined by Antarctic marine sediments), Trieste, Italy
17. Stephen C. Brown, PhD (Environmental Science, State University of New York), District Agriculture Agent, Assistant Professor, University of Alaska Fairbanks, Ground Penetrating Radar Glacier research, Palmer, Alaska, U.S.A.
18. Mark Lawrence Campbell, PhD (chemical physics; gas-phase kinetic research involving greenhouse gases (nitrous oxide, carbon dioxide)), Professor, United States Naval Academy, Annapolis, Maryland, U.S.A.
19. Robert M. Carter, PhD, Professor, Marine Geophysical Laboratory, James Cook University, Townsville, Australia
20. Arthur Chadwick, PhD (Molecular Biology), Research Professor, Department of Biology and Geology, Southwestern Adventist University, Climate Specialties: dendrochronology (determination of past climate states by tree ring analysis), palynology (same but using pollen as a climate proxy), paleobotany and botany; Keene, Texas, U.S.A.
21. George V. Chilingar, PhD, Professor, Department of Civil and Environmental Engineering of Engineering, University of Southern California, Los Angeles, California, U.S.A.
22. Antonis Christofides, Dipl. Civil Engineering, MSc Computing Science, Climate Specialties: co-author of relevant papers: [here](http://hk-climate.org/) and [here](http://hk-climate.org/), author of <http://hk-climate.org/>, Athens, Greece
23. Petr Chylek, PhD, Laboratory Fellow, Remote Sensing Team Leader, Los Alamos National Laboratory, Los Alamos, New Mexico, U.S.A.
24. Ian D. Clark, PhD, Professor (isotope hydrogeology and paleoclimatology), Dept. of Earth Sciences, University of Ottawa, Ottawa, Ontario, Canada
25. Paul Copper, BSc, MSc, PhD, DIC, FRSC, Professor Emeritus, Department of Earth Sciences, Laurentian University Sudbury, Ontario, Canada
26. Cornelia Codreanova, Diploma in Geography, Researcher (Areas of Specialization: formation of glacial lakes) at Liberec University, Czech Republic, Zwenkau, Germany
27. Michael Coffman, PhD (Ecosystems Analysis and Climate Influences), CEO of Sovereignty International, President of Environmental Perspectives, Inc., Bangor, Maine, U.S.A.
28. Piers Corbyn, MSc (Physics (Imperial College London)), ARCS, FRAS, FRMetS, astrophysicist (Queen Mary College, London), consultant, founder WeatherAction long range forecasters, London, United Kingdom
29. Richard S. Courtney, PhD, energy and environmental consultant, IPCC expert reviewer, Falmouth, Cornwall, United Kingdom
30. Joseph D'Aleo, BS, MS (Meteorology, University of Wisconsin), Doctoral Studies (NYU), Executive Director - ICECAP (International Climate and Environmental Change Assessment Project), Fellow of the AMS, College Professor Climatology/Meteorology, First Director of Meteorology The Weather Channel, Hudson, New Hampshire, U.S.A.
31. David Deming, PhD (Geophysics), Associate Professor, College of Arts and Sciences, University of Oklahoma, Norman, Oklahoma, U.S.A.
32. James E Dent, B.Sc., FCIWEM, C.Met, FRMetS, C.Env., Independent Consultant, Member of WMO OPACHE Group on Flood Warning, Hadleigh, Suffolk, England, United Kingdom
33. Chris R. de Freitas, PhD, climate Scientist, School of Environment, The University of Auckland, New Zealand

34. Willem de Lange, MSc (Hons), DPhil (Computer and Earth Sciences), Senior Lecturer in Earth and Ocean Sciences, The University of Waikato, Hamilton, New Zealand
35. Geoff Duffy, DEng (Dr of Engineering), PhD (Chemical Engineering), BSc, ASTCDip., FRSNZ (first chemical engineer to be a Fellow of the Royal Society in NZ), FICHEM, wide experience in radiant heat transfer and drying, chemical equilibria, etc. Has reviewed, analysed, and written brief reports and papers on climate change, Auckland, New Zealand
36. Robert W. Durrenberger, PhD, former Arizona State Climatologist and President of the American Association of State Climatologists, Professor Emeritus of Geography, Arizona State University, Sun City, Arizona, U.S.A.
37. Don J. Easterbrook, PhD, Emeritus Professor of Geology, Western Washington University, Bellingham, Washington, U.S.A.
38. Willis Eschenbach, Independent Climate Researcher, Climate Specialties: Tropical tropospheric amplification, constructal theories of climate, See sample of scientific writings in Nature [here](#), Occidental, CA, U.S.A.
39. Christopher Essex, PhD, professor of applied mathematics, and Associate Chair, Department of Applied Mathematics, Former Director, Program in Theoretical Physics, University of Western Ontario, Former NSERC postdoc at the Canadian Climate Centre's Numerical Modelling Division (GCM), London, Ontario, Canada
40. Per Engene, MSc, Biologist, Bø i Telemark, Norway, Co-author - The Climate, Science and Politics (2009)
41. Terrence F. Flower, PhD, Professor of Physics and Astronomy, St. Catherine University, studied and taught physics of climate (focus on Arctic and Antarctic), took students to study physics of climate change in the Antarctic and Costa Rica, St. Paul, Minnesota, U.S.A.
42. Stewart Franks, BSc. (Hons, Environmental Science), PhD (Landsurface-atmosphere interactions), Associate Professor and Dean of Students, University of Newcastle, Climate Specialties: hydro-climatology, flood/drought risk, Newcastle, Australia
43. Lars Franzén, PhD (Physical Geography), Professor, Physical Geography at Earth Sciences Centre, University of Gothenburg, Areas of Specialization: Palaeoclimate from global peatland and Chinese loess studies - see related scientific paper by Franzén et al, Gothenburg, Västra Götaland, Sweden
44. Gordon Fuls, PhD (Physics, University of Chicago), cosmic radiation, solar wind, electromagnetic and geophysical phenomena, Corbett, Oregon, U.S.A.
45. Robert W. Gaudie, PhD, Research Professor (retired), Hawai'i Institute of Geophysics and Planetology, School of Ocean Earth Sciences and Technology, University of Hawai'i at Manoa, Hawaii, U.S.A.
46. Katya Georgieva, MSc (Physics of the Earth, Atmosphere, and Space, specialty Meteorology), PhD (Solar-Terrestrial Physics - PhD thesis on solar influences on global climate changes), Associate Professor, Head of group "Solar dynamics and global climate change" in the Solar-Terrestrial Influences Laboratory at the Bulgarian Academy of Sciences, head of project "Solar activity influences of weather and climate" of the scientific plan of the Bulgarian Academy of Sciences, member of the "Climate changes" council of the Bulgarian Academy of Sciences, Regional coordinator of the Balkan, Black sea and Caspian sea countries and member of the European Steering Committee for the International Heliophysical Year 2007-2008, deputy editor-in-chief of the international scientific journal "Sun and Geosphere", Bulgaria
47. Lee C. Gerhard, PhD, Senior Scientist Emeritus, University of Kansas, past director and state geologist, Kansas Geological Survey, U.S.A.
48. Gerhard Gerlich, Dr.rer.nat. (Mathematical Physics: Magnetohydrodynamics) habil. (Real Measure Manifolds), Professor, Institut für Mathematische Physik, Technische Universität Carolo-Wilhelmina zu Braunschweig, Braunschweig, Germany, Co-author of "Falsification Of The Atmospheric CO2 Greenhouse Effects Within The Frame Of Physics", Int.J.Mod.Phys., 2009
49. Fred Goldberg, PhD, Adj Professor, Royal Institute of Technology (Mech, Eng.), Secretary General KTH International Climate Seminar 2006 and Climate analyst (NIPCC), Lidingö, Sweden
50. Stanley B. Goldenberg, Research Meteorologist, NOAA, AOML/Hurricane Research Division, Miami, Florida, U.S.A.
51. Wayne Goodfellow, PhD (Earth Science), Ocean Evolution, Paleoenvironments, Adjunct Professor, Senior Research Scientist, University of Ottawa, Geological Survey of Canada, Ottawa, Ontario, Canada
52. Thomas B. Gray, MS (Meteorology, California Institute of Technology and Florida State University), 23 years as Meteorologist with the U.S. Army and Air Force (retired) and 15 years experience with NOAA Environmental Research Laboratories. Assignments include Chief, Analysis and Forecast Division, Global Weather Center, Omaha, Nebraska and Chief, Solar Forecast Center, Boulder Colorado, maintains active interest in paleoclimate and atmospheric physics, Yachats, Oregon, U.S.A.
53. Vincent Gray, PhD, New Zealand Climate Coalition, expert reviewer for the IPCC, author of The Greenhouse Delusion: A Critique of Climate Change 2001, Wellington, New Zealand
54. William M. Gray, PhD, Professor Emeritus, Dept. of Atmospheric Science, Colorado State University, Head of the Tropical Meteorology Project, Fort Collins, Colorado, U.S.A.
55. Kenneth P. Green, Doctor of Environmental Science and Engineering (UCLA, 1994), Resident Scholar, Interim Director, Center for Regulatory Studies, American Enterprise Institute, Washington D.C., U.S.A.
56. Charles B. Hammons, PhD (Applied Mathematics), climate-related specialties: applied mathematics, modeling & simulation, software & systems engineering, Associate Professor, Graduate School of Management, University of Dallas; Assistant Professor, North Texas State University (Dr. Hammons found many serious flaws during a detailed study of the software, associated control files plus related email traffic of the Climate Research Unit temperature and other records and "adjustments" carried out in support of IPCC conclusions), Coyle, OK, U.S.A.
57. William Happer, PhD, Professor, Department of Physics, Princeton University, Princeton, NJ, U.S.A.
58. Howard Hayden, PhD, Emeritus Professor (Physics), University of Connecticut, The Energy Advocate, Pueblo West, Colorado, U.S.A.
59. Warren T. Hinds, B.S. (Engineering), M.S. (Atmospheric Sciences), PhD (Physical Ecology, U. Washington, Seattle), Sr. Scientist at Pacific Northwest National Laboratory; consultant for USA EPA research on Global Climate Change Program, Specialist for Defense Programs, Department of Energy, Climate Specialties: atmospheric physics and quantitative empirical analyses regarding climatological, meteorological, and ecological responses to environmental stresses, Gainesville, Georgia, U.S.A.
60. Art Horn, Meteorologist (honors, Lyndon State College, Lyndonville, Vermont), operator, The Art of Weather, U.S.A.
61. Douglas Hoyt, B.S. (Physics, Rensselaer Polytechnic Institute), M.S. (Astro-Geophysics, University of Colorado), co-author of the book The Role of the Sun in climate Change, previously senior scientist at Raytheon (MODIS instrument development), with earlier employment at NOAA, NCAR, World Radiation Center and the Sacramento Peak Observatory, Berkeley Springs, West Virginia, U.S.A.
62. Warwick Hughes, MSc Hons (Geology), Founder of the "Errors in IPCC Climate Science" Blog - <http://www.warwickhughes.com/blog/>, Areas of Specialization: Jones et al temperature data, Canberra, Australia
63. Ole Humlum, PhD, Professor of Physical Geography, Department of Physical Geography, Institute of Geosciences, University of Oslo,

- Oslo, Norway
64. Craig D. Idso, PhD, Chairman of the Board of Directors of the Center for the Study of Carbon Dioxide and Global Change, Tempe, Arizona, U.S.A.
 65. Sherwood B. Idso, PhD, President, Center for the Study of Carbon Dioxide and Global Change, Tempe, Arizona, U.S.A.
 66. Larry Irons, BS (Geology), MS (Geology), Sr. Geophysicist at FairfieldNodal (Areas of Specialization: Paleoclimate), Lakewood, Colorado, U.S.A.
 67. Terri Jackson, MSc (plasma physics), MPhil (energy economics), Director, Independent Climate Research Group, Northern Ireland and London (Founder of the energy/climate group at the Institute of Physics, London), United Kingdom
 68. Albert F. Jacobs, Geol.Drs., P. Geol., Calgary, Alberta, Canada
 69. Zbigniew Jaworowski, PhD, DSc, professor of natural sciences, Senior Science Adviser of Central Laboratory for Radiological Protection, researcher on ice core CO2 records, Warsaw, Poland
 70. Bill Kappel, BS (Physical Science-Geology), BS (Meteorology), Storm Analysis, Climatology, Operation Forecasting, Vice President/Senior Meteorologist, Applied Weather Associates, LLC, University of Colorado, Colorado Springs, U.S.A.
 71. Olavi Kärner, Ph.D., Extraordinary Research Associate; Dept. of Atmospheric Physics, Tartu Observatory, Toravere, Estonia
 72. Madhav L. Khandekar, PhD, consultant meteorologist, (former) Research Scientist, Environment Canada, Editor "Climate Research" (03-05), Editorial Board Member "Natural Hazards, IPCC Expert Reviewer 2007, Unionville, Ontario, Canada
 73. Leonid F. Khilyuk, PhD, Science Secretary, Russian Academy of Natural Sciences, Professor of Engineering, University of Southern California, Los Angeles, California, U.S.A.
 74. William Kinimonth MSc, MAdmin, former head of Australia's National Climate Centre and a consultant to the World Meteorological organization's Commission for Climatology, Kew, Victoria, Australia
 75. Gerhard Kramm, Dr. rer. nat. (Theoretical Meteorology), Research Associate Professor, Geophysical Institute, Associate Faculty, College of Natural Science and Mathematics, University of Alaska Fairbanks, (climate specialties: Atmospheric energetics, physics of the atmospheric boundary layer, physical climatology - see interesting paper by Kramm et al), Fairbanks, Alaska, U.S.A.
 76. Leif Kullman, PhD (Physical geography, plant ecology, landscape ecology), Professor, Physical geography, Department of Ecology and Environmental science, Umeå University, Areas of Specialization: Paleoclimate (Holocene to the present), glaciology, vegetation history, impact of modern climate on the living landscape, Umeå, Sweden
 77. Douglas Leahey, PhD, meteorologist and air-quality consultant, President - Friends of Science, Calgary, Alberta, Canada
 78. Jay Lehr, BEng (Princeton), PhD (environmental science and ground water hydrology), Science Director, The Heartland Institute, Chicago, Illinois, U.S.A.
 79. Edward Liebsch, B.A. (Earth Science, St. Cloud State University); M.S. (Meteorology, The Pennsylvania State University), former Associate Scientist, Oak Ridge National Laboratory; former Adjunct Professor of Meteorology, St. Cloud State University, Environmental Consultant/Air Quality Scientist (Areas of Specialization: micrometeorology, greenhouse gas emissions), Maple Grove, Minnesota, U.S.A.
 80. Richard S. Lindzen, PhD, Alfred P. Sloan professor of meteorology, Dept. of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A.
 81. William Lindqvist, PhD (Applied Geology), Independent Geologic Consultant, Areas of Specialization: Climate Variation in the recent geologic past, Tiburon, California, U.S.A.
 82. Peter Link, BS, MS, PhD (Geology, Climatology), Geol/Paleoclimatology, retired, Active in Geol-paleoclimatology, Tulsa University and Industry, Evergreen, Colorado, U.S.A.
 83. Anthony R. Lupo, Ph.D., Professor of Atmospheric Science, Department of Soil, Environmental, and Atmospheric Science, University of Missouri, Columbia, Missouri, U.S.A.
 84. Qing-Bin Lu, PhD, Associate Professor, Department of Physics and Astronomy, cross-appointed to Departments of Biology and Chemistry, Canadian Institutes of Health Research (CIHR) New Investigator, University of Waterloo, Ontario, Canada
 85. Horst Malberg, PhD, Professor (emeritus) for Meteorology and Climatology and former director of the Institute for Meteorology at the Free University of Berlin, Germany
 86. Björn Malmgren, PhD, Professor Emeritus in Marine Geology, Paleoclimate Science, Goteborg University, retired, Norrtälje, Sweden
 87. Oliver Manuel, BS (Chem), MS (Geo-Chem), PhD (Nuclear Chem), Post-Doc (Space Physics), Fulbright Scholar (Astrophysics), NSF Post-Doc Fellow (UC-Berkeley), Associate - Climate & Solar Science Institute, Professor (now Emeritus)/Dept Chair, College of Arts & Sciences University of Missouri-Rolla, Fulbright Scholar (Tata Institute- Mumbai), previously Research Scientist (US Geological Survey-Denver) and NASA Principal Investigator for Apollo, Climate Specialties: Earth's heat source, sample of relevant papers: "Earth's heat source - the Sun", Energy and Environment 20 131-144 (2009); "The sun: a magnetic plasma diffuser that controls earth's climate", paper presented at the V. International Conference on Non-accelerator New Physics, Dubna, Russia, 20 June 2005; "Super-fluidity in the solar interior: Implications for solar eruptions and climate", Journal of Fusion Energy 21, 193-198 (2002), Cape Girardeau, Missouri, U.S.A.
 88. David Manuta, Ph.D. (Inorganic/Physical Chemistry, SUNY Binghamton), FAIC, Climate Specialties: Gas Phase Infrared Studies, Thermodynamics of Small Molecule Formation (e.g., CO2, HF, and H2O), President, Manuta Chemical Consulting, Inc., Chairman of the Board, The American Institute of Chemists, Past Positions include Adjunct Professor of Physics, Ohio University-Chillicothe, Ohio, Assistant Professor of Chemistry and Physical Science at Shawnee State University, Ohio, Assistant Professor of Chemistry and Physical Science at Upper Iowa University and US Enrichment Corp. (nuclear), Waverly, Ohio, USA
 89. Francis Massen, PhD, Physics Lab and meteoLCD, Lycée Classique de Diekirch, 32 av. de la gare L-9233, (see interesting scientific paper by Massen et al), Diekirch, Luxembourg
 90. Irina Melnikova, PhD (Physics & Mathematics), Head of the Laboratory for Physics of the Atmosphere INENCO RAN, specialization: radiative regime of the cloudy atmosphere - see interesting paper on this topic by Dr. Melnikova, St. Petersburg, Russia
 91. Patrick J. Michaels, A.B., S.M., Ph.D. (ecological climatology, Senior Fellow in Environmental Studies, CATO Institute, Distinguished Senior Fellow in the School of Public Policy, George Mason University, a past president of the American Association of State Climatologists, past program chair for the Committee on Applied Climatology of the American Meteorological Society, past research professor of Environmental Sciences at University of Virginia, contributing author and reviewer of the UN IPCC, Washington, D.C., U.S.A.
 92. Fred Michel, PhD, Director, Institute of Environmental Sciences, Associate Professor of Earth Sciences, Carleton University (article by Dr. Michel: "Climatic hubris: The Ellesmere Island ice shelves have been disappearing since they were first mapped in 1906", January 16, 2007, National Post), Ottawa, Ontario, Canada

93. Ferenc Mark Miskolczi, PhD, atmospheric physicist, formerly of NASA's Langley Research Center, (in his 2010 paper, Dr. Miskolczi writes, "The data negate increase in CO₂ in the atmosphere as a hypothetical cause for the apparently observed global warming. A hypothesis of significant positive feedback by water vapor effect on atmospheric infrared absorption is also negated by the observed measurements. Apparently major revision of the physics underlying the greenhouse effect is needed."), Hampton, Virginia, U.S.A.
94. Asmund Moene, PhD, MSc (Meteorology), former head of the Forecasting Centre, Meteorological Institute, Oslo, Norway
95. Nils-Axel Mörner, PhD (Sea Level Changes and Climate), Emeritus Professor of Paleogeophysics & Geodynamics, Stockholm University, Stockholm, Sweden
96. Nasif Nahle, BSc (Biology), C-IL on Scientific Research, climatology and meteorology, physics, and paleobiology, Director of Scientific Research at Biology Cabinet (Areas of Specialization: Climatology and Meteorology (certification), San Nicolas de los Garza, Nuevo Leon, Mexico
97. David Nowell, M.Sc., Fellow of the Royal Meteorological Society, former chairman of the NATO Meteorological Group, Ottawa, Ontario, Canada
98. James J. O'Brien, PhD., Emeritus Professor, Meteorology and Oceanography, Florida State University, Florida, U.S.A.
99. Peter Oliver, BSc (Geology), BSc (Hons, Geochemistry & Geophysics), MSc (Geochemistry), PhD (Geology), specialized in NZ quaternary glaciations, Geochemistry and Paleomagnetism, previously research scientist for the NZ Department of Scientific and Industrial Research, Upper Hutt, New Zealand
100. Cliff Ollier, D.Sc., Professor Emeritus (School of Earth and Environment - see his Copenhagen Climate Challenge sea level article [here](#)), Research Fellow, University of Western Australia, Nedlands, W.A., Australia
101. R. Timothy Patterson, PhD, Professor, Dept. of Earth Sciences (paleoclimatology), Carleton University, Chair - International Climate Science Coalition, Ottawa, Ontario, Canada
102. Alfred H. Pekarek, PhD, Associate Professor of Geology, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, Minnesota, U.S.A.
103. Stanley Penkala, BS (Chemical Engineering, Univ. of PA), PhD (Chemical Engineering, Univ. of PA.), Asst. Prof. Air Engineering and Industrial Hygiene, University of Pittsburgh GSPH (1970-1973), Environmental Scientist, DeNardo & McFarland Weather Services (1973-1980), Air Science Consultants, Inc. (VP 1980-1995, President 1995-Present), Areas of Specialization: Air Dispersion Modeling, Anthropogenic Sources of Global CO₂, Quality Assurance in Air Pollution Measurements, Pittsburgh, PA, U.S.A.
104. Ian Plimer, PhD, Professor of Mining Geology, The University of Adelaide; Emeritus Professor of Earth Sciences, The University of Melbourne, Australia
105. Oleg M. Pokrovsky, BS, MS, PhD (mathematics and atmospheric physics - St. Petersburg State University, 1970), Dr. in Phys. and Math Sciences (1985), Professor in Geophysics (1995), principal scientist, Main Geophysical Observatory (RosHydroMet), St. Petersburg, Russia. Note: Dr. Pokrovsky carried out comprehensive analysis of many available long climate time series and came to conclusion that anthropogenic CO₂ impact is not main contributor in climate change as declared by IPCC.
106. Daniel Joseph Pounder, BS (Meteorology, University of Oklahoma), MS (Atmospheric Sciences, University of Illinois, Urbana-Champaign); Meteorological/Oceanographic Data Analyst for the National Data Buoy Center, formerly Meteorologist, WILL AM/FM/TV, Urbana, U.S.A.
107. Brian Pratt, PhD, Professor of Geology (Sedimentology), University of Saskatchewan (see Professor Pratt's article for a summary of his views), Saskatoon, Saskatchewan, Canada
108. Tom Quirk, MSc (Melbourne), D Phil (physics), MA (Oxford), SMP (Harvard), Member of the Scientific Advisory Panel of the Australian climate Science Coalition, Member Board Institute of Public Affairs, Melbourne, Areas of Specialization: Methane, Decadal Oscillations, Isotopes, Victoria, Australia
109. Vijay Kumar Raina, Ex. Deputy Director General, Geological Survey of India, author of 2010 MoEF Discussion Paper, "Himalayan Glaciers - State-of-Art Review of Glacial Studies, Glacial Retreat and Climate Change", the first comprehensive study on the region. Mr. Raina's field activities covered extensive research on the geology and the glaciers of the Himalayas, Andaman Islands that included research on the volcanoes in the Bay of Bengal. He led two Indian Scientific Expeditions to Antarctica that earned him the National Mineral Award and the Antarctica Award. He has authored over 100 scientific papers and three books: 'Glacier Atlas of India' dealing with various aspects of glacier studies under taken in the Himalayas; 'Glaciers, the rivers of ice' and 'Images Antarctica, Reminiscences', Chandigarh, India
110. Denis Rancourt, B.Sc., M.Sc., Ph.D. (Physics), Former physics professor, University of Ottawa (then funded by NSERC in both physics and environmental science), Climate Specialties: global carbon cycle and environmental nanoparticles science, statistical physics, as well as the politics, sociology and psychology of the climate debate, current research includes radiative effects and phenomena (albedo, greenhouse effect), Ottawa, Ontario, Canada
111. Oleg Raspopov, Doctor of Science and Honored Scientist of the Russian Federation, Professor - Geophysics, Senior Scientist, St. Petersburg Filial (Branch) of N.V.Pushkov Institute of Terrestrial Magnetism, Ionosphere and Radiowaves Propagation of RAS (climate specialty: climate in the past, particularly the influence of solar variability), Editor-in-Chief of journal "Geomagnetism and Aeronomy" (published by Russian Academy of Sciences), St. Petersburg, Russia
112. S. Jeevananda Reddy, M.Sc. (Geophysics), Post Graduate Diploma (Applied Statistics, Andhra University), PhD (Agricultural Meteorology, Australian University, Canberra), Formerly Chief Technical Advisor -- United Nations World Meteorological Organization (WMO) & Expert-Food and Agriculture Organization (UN), Convenor - Forum for a Sustainable Environment, author of 500 scientific articles and several books - here is one: "Climate Change - Myths & Realities", Hyderabad, India
113. George A. Reilly, PhD (Geology, University of Michigan, Ann Arbor), areas of specialization: Geological aspects of paleoclimatology, Retired, Winnipeg, Manitoba, Canada
114. Robert G. Roper, PhD, DSc (University of Adelaide, South Australia), Emeritus Professor of Atmospheric Sciences, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, Georgia, U.S.A.
115. Nicola Scafetta, PhD (Physics, 2001, University of North Texas), Laurea (Dottore in Physics, 1997, Università di Pisa, Italy), Active Cavity Radiometer Irradiance Monitor Experiment (ACRIM), Climate Specialties: solar and astronomical causes of climate change, see interesting paper by Scafetta on this), Research Scientist - Physics, Duke University, Durham, NC, U.S.A.
116. Rob Seagel, MSc (forest microclimate specialist), Principal Consultant - Pacific Phytometric Consultants, Surrey, British Columbia, Canada
117. Tom V. Segalstad, PhD (Geology/Geochemistry), secondary Web page [here](#), Head of the Geological Museum, Natural History Museum

- and Associate Professor of Resource and Environmental Geology, University of Oslo, Norway
118. Gary Sharp, PhD, Center for Climate/Ocean Resources Study, Salinas, California, U.S.A.
 119. Thomas P. Sheahen, PhD (Physics, Massachusetts Institute of Technology), specialist in renewable energy, research and publication (applied optics) in modeling and measurement of absorption of infrared radiation by atmospheric CO₂, National Renewable Energy Laboratory (2005-2008); Argonne National Laboratory (1988-1992); Bell Telephone labs (1966-73), National Bureau of Standards (1975-83), Oakland, Maryland, U.S.A.
 120. S. Fred Singer, PhD, Professor Emeritus (Environmental Sciences), University of Virginia, former director, U.S. Weather Satellite Service, Science and Environmental Policy Project, Charlottesville, Virginia, U.S.A.
 121. Jan-Erik Solheim, MSc (Astrophysics), Professor, Institute of Physics, University of Tromsø, Norway (1971-2002), Professor (emeritus), Institute of Theoretical Astrophysics, University of Oslo, Norway (1965-1970, 2002- present), climate specialties: sun and periodic climate variations, scientific paper by Professor Solheim "*Solen varslar et kaldere tår*", Baerum, Norway
 122. Roy W. Spencer, PhD, climatologist, Principal Research Scientist, Earth System Science Center, The University of Alabama, Huntsville, Alabama, U.S.A.
 123. H. Leighton Steward, Master of Science (Geology), Areas of Specialization: paleoclimates and empirical evidence that indicates CO₂ is not a significant driver of climate change, Chairman, PlantsNeedCO2.org and CO2IsGreen.org, Chairman of the Institute for the Study of Earth and Man (geology, archeology & anthropology) at SMU in Dallas, Texas, Boerne, TX, U.S.A.
 124. Peter Stilbs, TeknD, Professor of Physical Chemistry, Research Leader, School of Chemical Science and Engineering, Royal Institute of Technology (KTH), member of American Chemical Society and life member of American Physical Society, Chair of "Global Warming - Scientific Controversies in Climate Variability", International seminar meeting at KTH, 2006, Stockholm, Sweden
 125. Edward (Ted) R. Swart, D.Sc. (physical chemistry, University of Pretoria), B.Sc. (chem eng.) and Ph.D. (math/computer science, University of Witwatersrand). Dean of the Faculty of Science, Professor and Head of the Department of Computer Science, University of Rhodesia and past President of the Rhodesia Scientific Association. Set up the first radiocarbon dating laboratory in Africa with funds from the Gulbenkian Foundation. Professor in the Department of Combinatorics and Optimization at the University of Waterloo and Chair of Computing and Information Science and Acting Dean at the University of Guelph, Ontario, Canada. Now retired in Kelowna, British Columbia, Canada
 126. Roger Tanner, PhD (Analytical Chemistry, University of Illinois, Champaign-Urbana), 40-yr career in atmospheric chemistry and air quality measurement science at Tennessee Valley Authority, Desert Research Institute, Reno, and Brookhaven National Lab, Climate Specialties: atmospheric chemistry and air quality measurement science, Florence, Alabama, U.S.A.
 127. George H. Taylor, B.A. (Mathematics, U.C. Santa Barbara), M.S. (Meteorology, University of Utah), Certified Consulting Meteorologist, Applied Climate Services, LLC, Former State Climatologist (Oregon), President, American Association of State Climatologists (1998-2000), Corvallis, Oregon, U.S.A.
 128. Frank Tipler, PhD, Professor of Mathematical Physics, astrophysics, Tulane University, New Orleans, Louisiana, U.S.A.
 129. Edward M. Tomlinson, MS (Meteorology), Ph.D. (Meteorology, University of Utah), President, Applied Weather Associates, LLC (leader in extreme rainfall storm analyses), 21 years US Air Force in meteorology (Air Weather Service), Monument, Colorado, U.S.A.
 130. Ralf D. Tscheuschner, Dr.rer.nat. (Theoretical physics: Quantum Theory), Freelance Lecturer and Researcher in Physics and Applied Informatics, Hamburg, Germany. Co-author of "Falsification of The Atmospheric CO₂ Greenhouse Effects Within The Frame Of Physics, Int.J.Mod.Phys. 2009
 131. Göran Tullberg, Civilingenjör i Kemi (equivalent to Masters of Chemical Engineering), Co-author - [The Climate, Science and Politics](#) (2009) (see [here](#) for a review), formerly instructor of Organic Chemistry (specialization in "Climate chemistry"), Environmental Control and Environmental Protection Engineering at University in Växjö, Falsterbo, Sweden
 132. Brian Gregory Valentine, PhD, Adjunct professor of engineering (aero and fluid dynamics specialization) at the University of Maryland, Technical manager at US Department of Energy, for large-scale modeling of atmospheric pollution, Technical referee for the US Department of Energy's Office of Science programs in climate and atmospheric modeling conducted at American Universities and National Labs, Washington, DC, U.S.A.
 133. Gerrit J. van der Lingen, PhD (Utrecht University), geologist and paleoclimatologist, climate change consultant, Geoscience Research and Investigations, Christchurch, New Zealand
 134. A.J. (Tom) van Loon, PhD, Professor of Geology (Quaternary Geologyspecialism: Glacial Geology), Adam Mickiewicz University, Poznan, Poland; former President of the European Association of Science Editors
 135. Michael G. Vershovsky, Ph.D. in meteorology (macrometeorology, long-term forecasts, climatology), Senior Researcher, Russian State Hydrometeorological University, works with, as he writes, "Atmospheric Centers of Action (cyclons and anticyclones, such as Icelandic depression, the South Pacific subtropical anticyclone, etc.). Changes in key parameters of these centers strongly indicate that the global temperature is influenced by these natural factors (not exclusively but nevertheless)", St. Petersburg, Russia
 136. Gösta Walin, Professor, i oceanografi, Earth Science Center, Göteborg University, Göteborg, Sweden
 137. Anthony Watts, ItWorks/IntelliWeather, Founder, surfacestations.org, WattsUpWithThat, Chico, California, U.S.A.
 138. Charles L. Wax, PhD (physical geography: climatology, LSU), State Climatologist - Mississippi, past President of the American Association of State Climatologists, Professor, Department of Geosciences, Mississippi State University, U.S.A.
 139. Forese-Carlo Wezel, PhD, Emeritus Professor of Stratigraphy (global and Mediterranean geology, mass biotic extinctions and paleoclimatology), University of Urbino, Urbino, Italy

140. Boris Winterhalter, PhD, senior marine researcher (retired), Geological Survey of Finland, former professor in marine geology, University of Helsinki, Helsinki, Finland
141. David E. Wojick, PhD, PE, energy and environmental consultant, Technical Advisory Board member - Climate Science Coalition of America, Star Tannery, Virginia, U.S.A.
142. Dr. Bob Zybach, PhD (Oregon State University (OSU), Environmental Sciences Program, EPA-sponsored peer-reviewed research on carbon sequestration in coniferous forests -- mostly in relation to climate history and quality of climate predictive models), MAIS (OSU, Forest Ecology, Cultural Anthropology, Historical Archaeology), BS (OSU College of Forestry), President, NW Maps Co., Program Manager, Oregon Websites and Watersheds Project, Inc., Cottage Grove, Oregon, U.S.A.

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WHY DO WE NEED THE CLIMATE SCIENTISTS' REGISTER?

A common misunderstanding amongst the general public, mainstream media and politicians is that only a small proportion of experts in the climate science community have serious problems with the concept of a carbon dioxide-driven climate crisis. In reality, thousands of climate experts are highly skeptical of this hypothesis.

This fact has been repeatedly demonstrated through open letters, petitions and other declarations. However, these documents have not had sufficient impact on government policy largely because mainstream media have generally ignored them and so only a minority of the public is aware of their existence. Consequently, ICSC have incorporated the following characteristics into The Climate Scientists' Register to address this problem:

- The Register statement is apolitical, non-commercial and deals with one physical science topic only. Many scientists have been reluctant to endorse past declarations because they did not want to become involved in something they regarded as outside of their professional field of knowledge. Similarly, many potential supporters in the general public, mass media and government have not often cited past open letters for fear of appearing to support their ideological opponents.
- Scientist endorsers from all countries are welcome, thus negating the perception that national interests of any specific nation dominate.
- The Register will include full professional identification of each endorser along with areas of specialization. For endorsers who are willing and able to speak with media, politicians and the public, ICSC will also include detailed contact coordinates.
- ICSC will carefully vet any and all endorsers, allowing only the most qualified climate scientists to be included.
- No scientist will be listed as endorsing the Register without their specific approval and any wishing to have their names removed in the future will be accommodated immediately.
- The coordinating organization, ICSC, is a single-issue entity that is, and is widely seen to be, neutral politically, philosophically and financially. ICSC carefully avoids all ad hominem attacks and other logical fallacies. We also maintain strict confidentiality with regards to funders' identities and critique the comments of those involved in the debate based solely on the scientific accuracy of what they say and our perception of the effectiveness of their strategies.

For sensible climate policy to triumph, it will require that the vast majority of the public come to regard human caused climate catastrophe concerns as unfounded. This can only happen if we quickly 'expand the tent' of supporters of sound, science-based climate policies to include citizens of many different political persuasions, social philosophies and commercial interests. The Climate Scientists' Register does just that by focusing solely on the most important of the climate science topics under debate – is human produced carbon dioxide leading to dangerous global warming, or not?

To help ICSC produce and broadly publicize The Register and its endorsers, we invite donations to "International Climate Science Coalition" to be sent to the address below.

Media who wish to contact scientists involved in this project may also contact the below.

Tom Harris, Executive Director
 International Climate Science Coalition
 P.O. Box 23013
 Ottawa, Ontario, K2A 4E2
 Canada
 Phone In Ottawa: 613-728-9200
 E-mail: tom.harris@climatescienceinternational.net

U.S. STATE DEPARTMENT CLIMATE REPORT VIOLATES SCIENTIFIC EVIDENCE-BASED FORECASTING METHODS

May 7, 2010: "Global Warming Alarm Based on Faulty Forecasting Procedures: Comments on the United States Department of State's U.S. Climate Action Report 2010, 5th ed.", submitted May 4, 2010 by:

J. Scott Armstrong (Ph.D., MIT, 1968), a Professor at the Wharton School of Management, University of Pennsylvania, is the author of Long-range Forecasting, the creator of forecastingprinciples.com, and editor of Principles of Forecasting (Kluwer 2001), an evidence-based summary of knowledge on forecasting methods. He is a founder of the Journal of Forecasting, the International Journal of Forecasting, and the International Symposium on Forecasting, and he has spent 50 years doing research and consulting on forecasting. (Armstrong@wharton.upenn.edu)

Kesten C. Green of the International Graduate School of Business at the University of South Australia is a Director of the International Institute of Forecasters and is co-director with Scott Armstrong of the Forecasting Principles public service Internet site (ForPrin.com). He has been responsible for the development of two forecasting methods that provide forecasts that are substantially more accurate than commonly used methods. (Kesten.Green@unisa.edu.au)

Willie Soon is an astrophysicist and a geoscientist at the Solar, Stellar, and Planetary Sciences division of the Harvard-Smithsonian Center for Astrophysics. He is also the receiving editor in the area of solar and stellar physics for the journal New Astronomy. He has 20 years of active researching and publishing in the area of climate change and all views expressed are strictly his own. (vanlien@earthlink.net)

"Our research findings challenge the basic assumptions of the State Department's Fifth U.S. Climate Action Report (CAR 2010). The alarming forecasts of dangerous manmade global warming are not the product of proper scientific evidence-based forecasting methods. Furthermore, there have been no validation studies to support a belief that the forecasting procedures used were nevertheless appropriate for the situation. As a consequence, alarming forecasts of global warming are merely the opinions of some scientists and, for a situation as complicated and poorly understood as global climate, such opinions are unlikely to be as accurate as forecasts that global temperatures will remain much the same as they have been over recent years. Using proper forecasting procedures we predict that the global warming alarm will prove false and that government actions in response to the alarm will be shown to have been harmful."

Read whole submission on Climate Depot.

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CLIMATEGATE AND OTHER SCIENCE SCANDLES BEING SWEEP ASIDE

April 24, 2010: "Alarmists keep ringing the bell", by Dr. Richard S. Lindzen, Alfred P. Sloan professor of meteorology, Dept. of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A., published in [The Australian](#).

"There are, however, some things left unmentioned about the IPCC daims. For example, the observations are consistent with models only if emissions include arbitrary amounts of reflective aerosols or partides (arising, for example, from industrial sulfates) that are used to cancel much of the warming predicted by the models. Without such adjustments, the observations are consistent with there being sufficiently little warming as to constitute a problem not worth worrying about much."

[Read whole piece.](#)

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THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
PUBLISHED WEEKLY
CHICAGO, ILL., MAY 1, 1919
Vol. 27, No. 18

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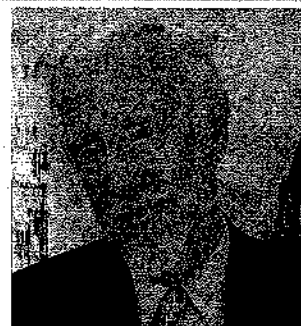
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WHO WE ARE

Executive Director: Tom Harris, B. Eng., M. Eng. (Mech., thermofluids), Ottawa, Ontario, Canada; Phone: 613-728-9200. [View](#) a short excerpt of a public presentation by Mr. Harris.

From 2009 to 2011 (four sessions), he taught a total of 1,500 students "[Climate Change: an Earth Sciences Perspective](#)", a second year course in the Faculty of Sciences at Carleton University in Ottawa, Canada. An excerpt from a 2011 lecture may be seen [here](#). Mr. Harris speaks about the approach he has taken with this course [here](#) (March 30, 2011). [Learn more](#) about Mr. Harris.

[Learn about](#) presentations being offered by Mr. Harris. Contact him by e-mail by clicking [here](#).

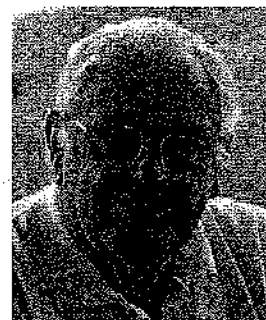


Chief Science Advisor: Professor Bob Carter, PhD, Adjunct Research Fellow at James Cook University, Queensland, Australia. Professor Carter is the author of the important new book on climate science and policy, "[Climate: the Counter Consensus](#)". [View](#) a short excerpt of Professor Carter in a 2007 televised debate. [Learn more](#) about Dr. Carter.

Contact Professor Carter by e-mail by clicking [here](#).

Strategic Advisor and Founding Chairman: Terry Dunleavy, MBE, JP, North Shore City, New Zealand. [View](#) a short excerpt of the presentation Mr. Dunleavy gave in May 2009 in New York City. [Read](#) his November 18, 2013 piece in the New Zealand Herald about the importance of the wine industry in NZ. [Learn more](#) about Mr. Dunleavy.

Contact Mr. Dunleavy by e-mail by clicking [here](#).



Energy Issues Advisor: Bryan Leyland, M.Sc., FIEE, FIMechE, FIPENZ, consulting engineer, Auckland, New Zealand. [View](#) a short excerpt of the presentation Mr. Leyland gave in May 2010 in Chicago. [Learn more](#) about Mr. Leyland.

Contact Mr. Leyland by e-mail by clicking [here](#).

ICSC announces the sad passing away of our Policy Advisory Board member Owen McShane, Resource Economist, Centre for Resource Management Studies, New Zealand. One of the most brilliant minds on urban land use planning policy, Owen McShane, was a co-founder of the New Zealand Climate Science Coalition, which created ICSC. As quoted from the NZCSC Website: "Owen has been a lucid, articulate voice of reason across a wide range of infrastructure and planning issues, always impeccable in the depth of his research and staunchly courageous in his willingness to question the rationale for centralisation. We join his many friends and colleagues around the world in conveying our deep sympathy to his wife Jenny, in a loss that we also feel so deeply of someone whose friendship and irreplaceable wide counsel we will miss."

You can read more from New Zealand's National Business Review [here](#).

ICSC has two advisory boards with associated consultant advisers: one each for science and policy.

ICSC Science Advisory Board:

1. William Alexander, Professor Emeritus, Dept. of Civil Engineering, University of Pretoria, South Africa; Member, UN Scientific and Technical Committee on Natural Disasters, 1994-2000, Pretoria, South Africa
2. J. Scott Armstrong, Professor of Marketing, The Wharton School, University of Pennsylvania, Founder of the International Journal of Forecasting, Philadelphia, Pennsylvania, U.S.A.
3. Tim Ball, PhD, Environmental consultant and former climatology professor, University of Winnipeg (founded the Rupertsland Research Centre). Now residing in Victoria,

British Columbia, Canada

4. David Bellamy, OBE, PhD, English botanist, author, broadcaster, environmental campaigner, Hon. Professor of Botany (Geography), University of Nottingham, Hon. Prof. Faculty of Engineering and Physical Sciences, Central Queensland University, Hon. Prof. of Adult and Continuing Education, University of Durham, United Nations Environment Program Global 500 Award Winner, Dutch Order of The Golden Ark, Bishop Auckland County, Durham, England, U.K.
5. Ian D. Clark, PhD, Professor (isotope hydrogeology and paleoclimatology), Dept. of Earth Sciences, University of Ottawa, Ottawa, Ontario, Canada
6. Paul Copper, BSc, MSc, PhD, DIC, FRSC, Professor Emeritus, Department of Earth Sciences, Laurentian University Sudbury, Ontario, Canada
7. Hans Erren, Doctorandus, geophysicist and climate specialist, Sittard, The Netherlands
8. Christopher Essex, PhD, professor of applied mathematics, and Associate Chair, Department of Applied Mathematics, Former Director, Program in Theoretical Physics, University of Western Ontario, Former NSERC postdoc at the Canadian Climate Centre's Numerical Modelling Division (GCM), London, Ontario, Canada
9. Lee C. Gerhard, PhD, Senior Scientist Emeritus, University of Kansas, past director and state geologist, Kansas Geological Survey, U.S.A.
10. Vincent Gray, PhD, New Zealand climate Coalition, expert reviewer for the IPCC, author of *The Greenhouse Delusion: A Critique of climate Change 2001*, Wellington, New Zealand
11. Kesten C. Green, PhD, Senior Lecturer, Managerial Economics, International Graduate School of Business, and Senior Research Associate of the Ehrenberg-Bass Institute for Marketing Science, University of South Australia, Adelaide, Australia
12. Ole Humlum, PhD, Professor of Physical Geography, Department of Physical Geography, Institute of Geosciences, University of Oslo, Oslo, Norway. See Professor Humlum's important colation of climate data at <http://climatebyyou.com/>.
13. Albert F. Jacobs, MS, Geol.Drs., P. Geol., Calgary, Alberta, Canada
14. Madhav L. Khadekar, PhD, consultant meteorologist, (former) Research Scientist, Environment Canada, Editor "Climate Research" (03-05), Editorial Board Member "Natural Hazards, IPCC Expert Reviewer 2007, Unionville, Ontario, Canada
15. William Kininmonth, MSc, MAdmin, former head of Australia's National climate Centre and a consultant to the World Meteorological organization's Commission for Climatology, Kew, Victoria, Australia
16. R.W.J. (Rob) Kouffeld, PhD, Emeritus Professor - Energy Conversion, Technical University Delft, Driebergen, The Netherlands
17. Hans H.J. Labohm, PhD, Independent economist, author specialised in climate issues, expert reviewer of the IPCC, author of *Man-Made Global Warming: Unravelling a Dogma and climate science-related Blog*, former advisor to the executive board, Clingendael Institute (The Netherlands Institute of International Relations), The Netherlands
18. Jay Lehr, Ph.D. (ground water hydrology, University of Arizona), Chicago, IL, U.S.A.
19. Fred Michel, PhD, Director, Institute of Environmental Sciences, Associate Professor of Earth Sciences, Carleton University, Ottawa, Ontario, Canada
20. Nils-Axel Möner, PhD (Sea Level Changes and climate), Emeritus Professor of Paleogeophysics & Geodynamics, Stockholm University, Stockholm, Sweden
21. Brian Pratt, PhD, Professor of Geology (Sedimentology and Paleontology), University of Saskatchewan (see Professor Pratt's article on p. 10 - 12 [here](#) for a summary of his views), Saskatoon, Saskatchewan, Canada
22. Peter Ståls, TeknD, Professor of Physical Chemistry, Research Leader, School of Chemical Science and Engineering, Royal Institute of Technology (KTH), member of American Chemical Society and life member of American Physical Society, Chair of "Global Warming - Scientific Controversies in climate Variability", International seminar meeting at KTH, 2006, Stockholm, Sweden
23. Gerrit J. van der Lingen, PhD (Utrecht University), geologist and paleoclimatologist, climate Change consultant, Geoscience Research and Investigations, Christchurch, New Zealand

ICSC Consultant Science Advisers:

1. Chris R. de Freitas, PhD, climate Scientist, Professor, School of Environment, The University of Auckland, New Zealand
2. Willem de Lange, MSc (Hons), DPhil (Computer and Earth Sciences), Senior Lecturer in Earth and Ocean Sciences, Waikato University, Hamilton, New Zealand
3. Tad Murty, PhD, Professor, University of Ottawa, Previously Senior Research Scientist for Fisheries and Oceans Canada and former director of Australia's National Tidal Facility and professor of earth sciences, Flinders University, Adelaide, Ottawa, Canada - see September 17, 2010 Ottawa Citizen article about Dr. Murty's award from the International Tsunami Society for outstanding contributions to tsunami research.

ICSC Policy Advisory Board:

1. Ferdinand Hohenlohe-Bartenstein, Germany.
2. Alan Gibbs, United Kingdom
3. Michael Limburg, Engineer, deputy press-speaker of Europäisches Institut für Klima & Energie (EIKE - European Institute for Climate & Energy), Groß Glienicke, Germany
4. John McLean, Climate Data Analyst, Computer scientist, Melbourne, Australia
5. Christopher Monckton, Viscount of Brenchley, Chief Policy Advisor, Science and Public Policy Institute, Quantification of Climate Sensitivity, Carie, Rannoch, Scotland
6. Julian Morris, Graduate Diploma (Law), MPhil (Land Economics), MSc (Environment and Resource Economics), MA (Economics), Director, *International Policy Network*, Visiting Professor, University of Buckingham, United Kingdom
7. Viv Forbes, Chairman, Carbon Sense Coalition, Sheep and Cattle Grazier, Soil Scientist and Mining Consultant, Rosewood, Queensland, Australia

ICSC Consultant Policy Advisers:

1. Sonia A. Boechmer-Christiansen, PhD, Reader Emeritus, Dept. of Geography, Hull University, Editor - *Energy&Environment*, Multi-Science (www.multi-science.co.uk), Hull,

United Kingdom

2. David Henderson, formerly Head of the Economics and Statistics Department of the Organisation for Economic Cooperation and Development (OECD) in Paris, currently a Visiting Professor at the Westminster Business School in London, United Kingdom.

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CLIMATEGATE II - U.S.A. VERSION

March 30, 2010: "NASA Data Worse Than Climate-Gate Data, Space Agency Admits", by Blake Snow, FOXNews.com

"E-mail messages obtained by a Freedom of Information Act request reveal that NASA concluded that its own climate findings were inferior to those maintained by both the University of East Anglia's Climatic Research Unit (CRU) -- the scandalized source of the leaked Climate-gate e-mails -- and the National Oceanic and Atmospheric Administration's National Climatic Data Center."

[Read whole piece.](#)

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GLOBAL HURRICANE ENERGY WEAKEST IN THREE DECADES

February 26, 2010: "Great Depression! Tropical Cyclone Energy near 30-year lows", by Ryan N. Maue, PhD candidate, Florida State University, Tallahassee, FL, U.S.A.

"Both Northern Hemisphere and South Hemisphere AND therefore overall Global hurricane activity has continued to sink to levels not seen since the 1970s. Even more astounding, when the Southern Hemisphere hurricane data is analyzed to create a global value, we see that Global Hurricane Energy has sunk to 30-year lows, at the least, ... just as there are active periods of hurricane activity around the globe, there are inactive periods, and we are currently experiencing one of the most impressive inactive periods, now for almost 3 years... Under global warming scenarios, hurricane intensity is expected to increase (on the order of a few percent), but MANY questions remain as to how much, where, and when. This science is very far from settled."

Read the whole piece and see the various plots of "Accumulated Cyclone Energy".

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The American Medical Association is a non-profit corporation organized for the purpose of promoting the interests of the medical profession and the public. It is the largest and most influential organization of its kind in the world. The Association is composed of more than 50,000 members, including physicians, dentists, nurses, and other health care professionals. It is headquartered in Chicago, Illinois, and has a network of offices and branches throughout the United States and abroad. The Association's primary focus is on the advancement of medical science and the improvement of patient care. It achieves this through a variety of activities, including the publication of the Journal of the American Medical Association, the organization of medical conferences and seminars, and the provision of educational programs for its members. The Association also advocates for the interests of the medical profession and the public before the government and the media. It is a powerful force in the medical community and a key player in the development of health care policy.

The Journal of the American Medical Association is a peer-reviewed medical journal that publishes original research, clinical studies, and reviews of the medical literature. It is one of the most influential medical journals in the world, with a circulation of over 100,000 copies per week. The journal is published by the American Medical Association and is available to its members at a special rate. It is also available to the general public through various subscription services. The journal's content is organized into several sections, including original research, clinical studies, reviews, and news. It is a valuable resource for medical professionals and the general public alike.

The American Medical Association is committed to the highest standards of ethical conduct and professional behavior. It has a strict code of ethics that governs the actions of its members. The Association also has a system of disciplinary procedures to ensure that its members are held accountable for their actions. This commitment to ethics and professionalism is one of the reasons why the Association is so respected and trusted by the medical community and the public.

The American Medical Association is a leader in the field of medical education. It provides a wide range of educational programs for its members, including continuing medical education, specialty training, and leadership development. The Association also has a strong commitment to the education of the general public. It provides a variety of educational resources, including brochures, videos, and online courses, to help the public understand medical issues and make informed decisions about their health.

The American Medical Association is a powerful force for change in the medical community and the health care system. It has been instrumental in the development of many important medical advances and the improvement of patient care. It continues to work hard to promote the interests of the medical profession and the public, and to ensure that the highest standards of medical practice are maintained.

The American Medical Association is a proud member of the United Nations and the World Health Organization. It is also a member of many other international organizations, including the International Union of Pure and Applied Chemistry and the International Union of Pure and Applied Physics. This international focus is one of the reasons why the Association is so influential and respected around the world.

The American Medical Association is a dynamic and growing organization. It is constantly adapting to the changing needs of the medical community and the public. It is committed to innovation and to the pursuit of excellence in all of its activities. It is a true leader in the field of medicine and a source of pride for all who are associated with it.

The American Medical Association is a source of strength and support for its members. It provides a wide range of services and resources that help its members advance their careers and improve their practice. It is a true partner in the medical profession and a source of pride for all who are associated with it.

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CSC CALLS FOR OPEN DEBATE ON CLIMATE CHANGE CAUSES

February 19, 2010: "[Climate Change Debate](#)", Alberta Prime Time TV, Edmonton, Alberta, Canada - broadcast across Alberta

"Climategate has done us a great favour in that it has brought out into the public much of the discussion that has been going on behind closed doors at geological meetings, etc. And so, what we really need in Alberta and in fact across Canada and throughout the world is to stop demonizing one side or the other ... What we need to do is to have open science hearings where scientists of different points of view are invited in to present to the government, to committee hearings ...

"We should [also] help poor countries and others develop the tools, so they can become strong enough, have a strong enough infrastructure, so they can adapt to climate change without catastrophe."

[Watch](#) whole debate.

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LOS ANGELES MEDIA TACKLE CLIMATEGATE

Feb 18, 2010: PJTV (LA, California) interviews with Climategate investigators:

[Watch](#) interview #1

[Watch](#) interview #2

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UK MEDIA CONTINUE THRASHING OF CLIMATEGATE SUSPECTS

February 15, 2010: "[THE GREAT CLIMATE CHANGE RETREAT](#) - There has been no global warming for 15 years, a key scientist admitted yesterday in a major U-turn", by Ed Price, [The Daily Express](#), London, United Kingdom

"Professor Phil Jones, who is at the centre of the "Climategate" affair, conceded that there has been no "statistically significant" rise in temperatures since 1995. The admission comes as new research casts serious doubt on temperature records collected around the world and used to support the global warming theory."

[Read whole piece.](#)

February 14, 2010: "[Climategate U-turn as scientist at centre of row admits: There has been no global warming since 1995](#)", by Jonathan Petre, Daily Mail, London, United Kingdom.

"- Data for vital 'hockey stick graph' has gone missing

- There has been no global warming since 1995

- Warming periods have happened before - but NOT due to man-made changes"

[Read whole piece](#)

[Read related editorial.](#)

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SCIENTIST'S OPEN LETTER TO FELLOW CLIMATE EXPERTS

February 6, 2010 (uploaded): "[Open Letter to the Climate Research Community](#)": by Petr Chylek, PhD, Professor and Laboratory Fellow, Remote Sensing Team Leader, Space and Remote Sensing Sciences, Los Alamos National Laboratory, New Mexico, U.S.A., published on December 5, 2009 on the [The Global Warming Policy Foundation Website](#), London, United Kingdom.

"Let us stop making unjustified claims and exaggerated projections about the future even if the editors of some eminent journals are just waiting to publish them. Let us admit that our understanding of the climate is less perfect than we have tried to make the public believe. Let us drastically modify or temporarily discontinue the IPCC. Let us get back to work."

[Read](#) the whole letter.

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CLIMATEGATE SPREADS TO INCLUDE CHINESE TEMPERATURE DATA

February 4, 2010: "[Climategate spreads like an ozone hole](#)", by [Laura Emmett, Russia Today](#) (television and Web page), reporting out of London and Copenhagen.

"Scientists at the heart of the Climategate controversy face new allegations which cast further doubt about global warming. Analysis shows researchers had tried to suppress key details of their findings for twenty years."

[Watch](#) whole TV newscast from London and read accompanying piece.

[See](#) Russia Today ad appearing at U.S. airports.

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Contact ICSC

By e-mail: click [here](#). Occasionally this e-mail bounces, so [here](#) is an alternative e-mail contact.

By phone in Ottawa, Canada: 613-728-9200

By surface mail:

Torn Harris
Executive Director
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P.O. Box 23013
Ottawa, Ontario K2A 4E2
Canada

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POLITICIAN'S GREENHOUSE GAS PLANS "SCIENTIFICALLY JUVENILE": AUSTRALIAN CLIMATE RESEARCH PROFESSOR

January 20, 2009: "Facts debunk global warming alarmism" by ICSC advisor [Robert M. Carter](#), PhD, Professor, Marine Geophysical Laboratory, [James Cook University](#), Townsville, Australia in [The Australian](#).

"The present global financial crisis should be inducing politicians not to squander money on non-solutions to non-problems. Yet to support their plans for emissions taxation, Western governments, including ours, are still propagating scientifically juvenile greenhouse propaganda underpinned only by circumstantial evidence and GCM computer gamesmanship."

[Read](#) the whole piece.

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USING STATISTICS TO 'WARM' A COOLING SOUTH POLE

January 31, 2009: "[Climate change's Antarctic ruffle](#)" by Lawrence Solomon, [National Post](#), Toronto, Canada.

"the U. S. government has maintained a scientific base at the South Pole since 1957 at which temperatures have been continuously measured. The temperature readings show a cooler climate over the past half century... various weather stations in Antarctica record cooler temperatures. Moreover, satellite readings of temperatures above Antarctica show a cooling trend."

"How do the authors reconcile the conclusions in their paper [that Antarctica is really warming, contrary to the measurements] with the cooler than average long-term sea-surface temperature anomalies off of the coast of Antarctica?" asked Roger Pielke, senior scientist at the University of Colorado in Boulder, in noting one of several failings in the study."

Check out the growing sea ice extent around the Antarctic yourself [here](#).

Yet, some say all this is wrong and the Antarctic is really warming after all - [read](#) the whole piece.

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CHICAGO, ILL., MAY 11, 1916

Vol. 17, No. 20

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CONDEMNATION OF 'MANN HOCKEY STICK' CONTINUES

February 12, 2009: Letters to the editor support harsh critique of Mann et al temperature reconstructions.

In response to Canadian journalist Lawrence Solomon's critique (see [here](#)) of Professor Michael Mann's proxy temperature reconstruction of the past millennium, Dr. Mann responded with his own opinion piece published by Google News - see [here](#).

Solomon responded [here](#) and a whole page of readers letters to the editor followed opposing Mann. See letters [here](#). Letter from ICSC Executive Director Tom Harris may be seen [here](#).

Here is the conclusion of the [Wegman report](#) (led by Professor Edward Wegman, chair of the National Academy of Sciences' (NAS) Committee on Applied and Theoretical Statistics) about Professor Mann's 'hockey stick' research:

"Overall, our committee believes that Mann's assessments that the decade of the 1990s was the hottest decade of the millennium and that 1998 was the hottest year of the millennium cannot be supported by his analysis."

February 14, 2009: "Under oath, North faults Mann too". Click [here](#) for the continuing fight in the National Post.

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The American Medical Association is a non-profit corporation organized for the purpose of promoting the interests of the medical profession and the public. It is the largest and most influential of the medical organizations in the United States. The Association is composed of more than 50,000 members, including physicians, dentists, nurses, and other health care professionals. The Association's primary concern is the improvement of medical education and the advancement of the medical profession. It also works to protect the public interest by advocating for the highest standards of medical practice and by opposing any measures that might undermine the integrity of the medical profession. The Association's activities are carried out through a variety of programs and services, including the publication of the Journal of the American Medical Association, the American Medical Association's official journal, and the American Medical Association's Council on Medical Education, which is responsible for the accreditation of medical schools in the United States. The Association also maintains a number of other programs and services, including the American Medical Association's Committee on Medical Ethics, which provides guidance to physicians on ethical issues, and the American Medical Association's Committee on Professionalism, which promotes the highest standards of medical practice. The Association's efforts are supported by a number of sources, including the American Medical Association's own funds, the American Medical Association's membership dues, and the American Medical Association's contributions to the American Medical Association's various programs and services. The Association's work is essential to the medical profession and the public, and its efforts are highly respected and valued by all who are concerned with the advancement of the medical profession and the improvement of the health care system.

—Continued—

CLIMATE INDUSTRY A COLOSSUS BUILD ON SAND

March 6, 2009: "[Investment Managers to Face Liabilities as Greenhouse Theories Unravel?](#)", by Tom Harris, Executive Director, International Climate Science Coalition, FCPP Backgrounder No. 71 - March 2009 - [Frontier Centre for Public Policy](#), Canada.

"In virtually every area cited as evidence of human-caused global climate change – temperatures and CO2 levels, ice caps, storm frequency, sea level rise, even polar bear populations (which have been rising for decades) – scientists are discovering strong evidence that what we are now experiencing is mostly due to natural cycles. At the same time, researchers are developing elegant and convincing new theories that fit the observational data far better than the greenhouse gas focused computer models that have driven climate concerns to date. President Barack Obama may actually believe that "The science is beyond dispute and the facts are clear", as he told delegates to the UN climate conference in Poland, but climate scientists know that the whole field is in intense dispute and very few of the key parameters driving climate are properly understood at all."

[Read](#) the whole background paper.

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CLIMATE EXPERTS CORRECT U.S. PRESIDENT

March 30, 2009: "With all due respect Mr. President, that is not true." [Open letter](#) to American President Barack Obama from over 100 climate scientists - [Cato Institute](#) newspaper ad just out.

"We, the undersigned scientists, maintain that the case for alarm regarding climate change is grossly overstated. Surface temperature changes over the past century have been episodic and modest and there has been no net global warming for over a decade now.^{1,2} After controlling for population growth and property values, there has been no increase in damages from severe weather-related events.³ The computer models forecasting rapid temperature change abjectly fail to explain recent climate behavior.⁴ Mr. President, your characterization of the scientific facts regarding climate change and the degree of certainty informing the scientific debate is simply incorrect."

[Read](#) whole signature list. Note: "Professor Pilmer" should be "Professor Plimer, Ph.D, University Of Melbourne (emeritus)"- see his presentation [here](#).

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HARVARD SCIENTIST: SUN'S ROLE IN CLIMATE CHANGE LIKELY FAR STRONGER THAN THAT OF CO2

April 8, 2009: 'Curious' Why The Sun Has Been So Dim Lately", by Mish Michaels, WBZ-TV (part of CBS Television Stations), Boston, Massachusetts, U.S.A.

"Based on my research, I tend to be in support of a very, very strong role by the Sun's energy input as a climate driver. If you were to ask me about the role of CO2, I would say its very, very small," he [Harvard's Dr. Willie Soon] added."

[Read](#) the whole piece.

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LEADING AUSTRALIAN GEOLOGIST DEBUNKS CLIMATE MYTHS IN NEW BOOK

April 13, 2009: "[Beware the climate of conformity](#)" by Paul Sheehan, The Sydney Morning Herald, Australia

"What I am about to write questions much of what I have written in this space, in numerous columns, over the past five years. Perhaps what I have written can withstand this questioning. Perhaps not. The greater question is, am I - and you - capable of questioning our own orthodoxies and intellectual habits? Let's see."

[Read](#) the whole newspaper review of Professor Ian Plimer's [important new book](#), "[Heaven and Earth](#)".

[Read](#) about book launch on May 6, 2009.

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ENVIRONMENT AND CLIMATE NEWS HIGHLIGHTS 2009 CLIMATE CONFERENCE

May 2009: "[Climate Change Conference Rebuts Alarmism](#)" by [Dan Miller](#), Executive Vice President and Publisher, The Heartland Institute, Chicago, Illinois, U.S.A., [Environment and Climate News](#)

[Read](#) whole newspaper. See page 15 for details of the new Climate Science Coalition of America about to be launched.

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CONFERENCE CONTROVERSY REVEALS RIFTS IN INTERNATIONAL EARTH SCIENCES COMMUNITY

May 3, 2009: New video highlights geologists dissenting from climate catastrophism during the 33rd International Geological Congress Oslo 2008 (August 6 - 14, 2008), Oslo, Norway. Watch video [here](#).



Watch the complete August 8, 2008 panel discussion [here](#) (use IE browser or WM7 Activex control). Segments (min:sec) of special interest include:

7:30 - 9:24; 40:08 - 41:38 and 54:26 - 55:55: [Professor Bob Carter](#) of James Cook University, Australia

9:35 - 11:25: [Dr. Henrik Svensmark](#), director, Center for Sun-Climate Research, Danish Space Research Institute

43:25 - 50:40: "Sedimentary geologist from eastern Canada": drought occurs most when Earth is colder, followed by three other geologist climate realists

20:25 - ~25:00: [Dr. Nils-Axel Mörner](#), head of the Paleogeophysics and Geodynamics department at Stockholm University in Sweden and unnamed Indian geologist

17:25 - 20:18: Indian geologist, "Sharia"

Systems ecologist who DOES support IPCC viewpoint said, starting at 28:19 in the video - "I want to talk to our representative from government, Ms. Hedegard [Connie Hedegard, Danish Minister of Climate and Energy] about this because I don't feel often like I am watching science. I feel like I am watching six year olds in a sandbox. People have extraordinarily firm beliefs in something about which equally qualified scientists on the other side, or some other point of the issue has, and they speak very strongly and with authority as if they know what the Hell they are talking about when I think almost all of us, and in the 30 years I've been involved with to some degree the CO2 issue, we haven't known for sure. I think there is some humility that we need here and respect for each other that I do not believe I have heard enough of."

Excerpts from this panel discussion have been used to refute President Obama's climate change assertions - watch video [here](#).

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AUSTRALIAN CLIMATE REALIST'S BOOK A PUBLIC SENSATION

May 5, 2009: "Hot-air doomsayers" by Ian Plimer, PhD, Professor of Mining Geology, The University of Adelaide; Emeritus Professor of Earth Sciences, The University of Melbourne, Australia, published in [The Australian](#).

"The huge number of recent letters tell me that there are winds of change. The average punter has been told for more than two decades that we are all going to fry. He is not stupid and is blessed with a rare commodity missing in many academic circles: common sense....

"To argue that human additions to atmospheric CO₂, a trace gas in the atmosphere, changes climate requires an abandonment of all we know about history, archaeology, geology, solar physics, chemistry and astronomy. We ignore history at our peril."

[Read](#) the whole article.

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FRIENDS OF SCIENCE WERE RIGHT ALL ALONG

May 23, 2009: "Is man-made global warming real?", By Nigel Hannaford, [Calgary Herald](#), Alberta, Canada.

"[The Friends](#), in short, made a good case and while I didn't feel qualified to adjudicate it, it seemed to me that somebody who was, should. But, that never happened. Instead, a well-funded global warming lobby steamrollered the world's governments and mainstream media, Canada's among them. Indeed, it became professionally suspect to be a "climate-change denier." Oil companies one might have expected to argue the science, rolled over: Business is business. The provincial government listened, once, but figured they couldn't fight the gathering consensus and in Ottawa, the new Conservative government quickly realized that in any contest between ice-cores and cuddly polar bear cubs, the votes were with the bears."

[Read](#) whole piece. Contact author [here](#).

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[Read whole piece.](#) Contact author [here](#).

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MIT AND IPCC CLIMATE FORECASTS 'UNSCIENTIFIC'

June 17, 2009: "MIT's unscientific, catastrophic climate forecast", by ICSC Advisors, Dr. Kesten C. Green of the Business and Economic Forecasting Unit at Monash University in Australia and Professor J. Scott Armstrong, of The Wharton School, University of Pennsylvania, Financial Post, National Post, Toronto, Canada.

"Policymakers and the public should be made aware that the forecasts from the MIT modellers, as well as those used by the IPCC, are merely the opinions of some scientists and computer modellers. It is not proper to claim that these are truly scientific forecasts."

Read the whole piece. Visit Armstrong and Green's forecasting site at <http://www.publicpolicyforecasting.com/>.

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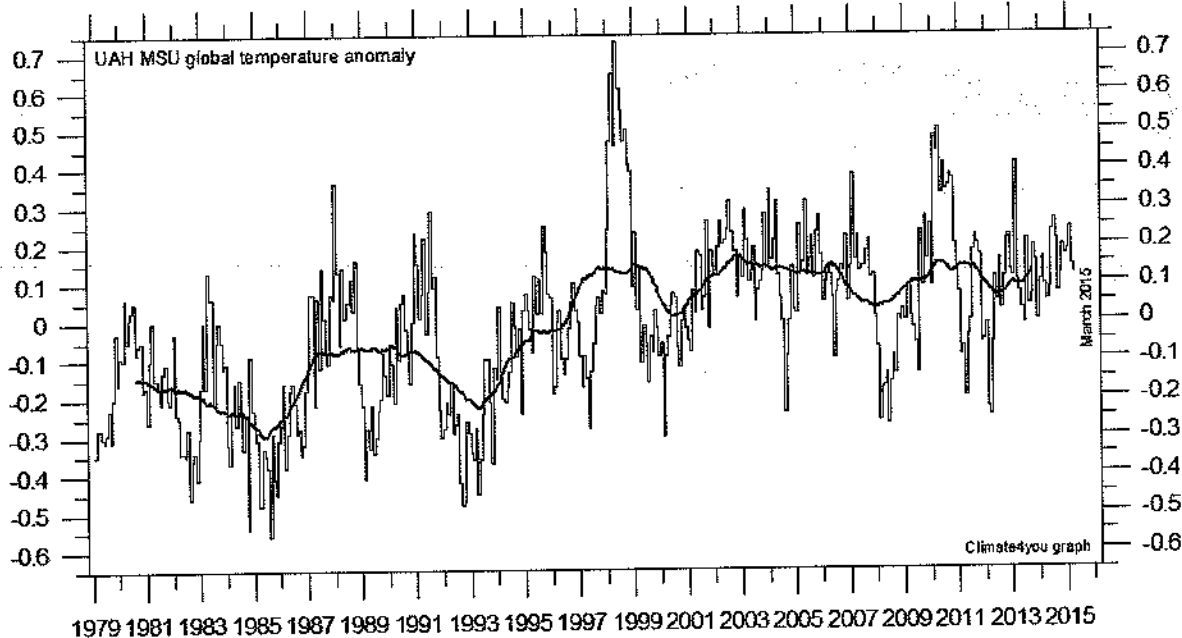
NET GLOBAL WARMING IN PAST THREE DECADES

ly 8, 2009: "It's getting chilly but still not cool to be a sceptic", by Andrew Bolt, [Herald Sun](#), Australia.

ast weekend we could understand better why Wong [Australian [Senator Penny Wong](#), Minister for Climate Change and Water] is no longer
en on data on surface and atmospheric warming. NASA's Aqua satellite - one of the four main measurements of world temperature - found
ne had dropped back to just .001 degrees above the average for the past 30 years."

ad the whole piece. Also read new [Climate Science Coalition of America](#) Chair, [Dr. Roy Spencer's](#) take on this.

TEMPERATURE INDEX BACK DOWN TO 30 YEAR AVERAGE:



bove graph explained by [Dr. Ole Humlum](#), Professor of Physical Geography at the Department of Geosciences, University of Oslo on www.climate4you.com: "Global monthly average lower troposphere temperature since 1979 according to [University of Alabama at Huntsville](#) SA. This graph uses data obtained by the National Oceanographic and Atmospheric Administration (NOAA) TIROS-N satellite, interpreted by [Roy Spencer](#) and [Dr. John Christy](#), both at Global Hydrology and Climate Center, [University of Alabama at Huntsville, USA](#). This temperature record show good agreement with the independent radiosonde temperature record. The thick line is the simple running 37 month average, nearly corresponding to a running 3 yr average. The cooling and warming periods directly influenced by the [1991 Mt. Pinatubo](#) volcanic eruption and the 1998 El Niño, respectively, are clearly visible. IPCC = foundation of the International Panel on Climate Change (November 1988). Last month shown: June 2009. Last diagram update: 6 July 2009."

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PLAN FOR CLIMATE CHANGE

November 2, 2009: "[We have no chance of stopping climate change](#)" - letter to the editor by Dr. Tim Ball, environmental consultant, ICSC Science Advisory Board member and past climatology professor at the University of Winnipeg, Canada. The Ottawa Citizen, Canada.

"... we have absolutely no chance of stopping climate change. It has always happened and always will so we also need to continue to research the causes of climate variations to better predict what will happen in the future to assist with adaptation efforts."

[Read](#) whole letter.

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